

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001548**Date Inspected:** 16-Feb-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** OBG 3AW, Miscellaneous Metal**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Performed joint base metal inspection with ZPMC QC & ABF QA representatives and International Paint technical representative. Caltrans QA Lumley observed ZPMC & ABF QA/QC personnel monitored ambient conditions, selected numerous splice plates for base metal repairs and grinding operations and profile values. Profiles ranged 81-83um. On the 370+- splice plates inspected jointly 6-8 were selected for repairs and re-blasting to re- establish proper profile. ZPMC personnel applied Interzinc 22 to these base metal surfaces.

OBG 3AW

ZPMC personnel resumed sanding and screening operations to remove dry spray from surfaces to receive topcoat Interfine 979. ZPMC also mask areas of faying surfaces for future connection assemblies which are not to receive Interfine 979 topcoat. Chloride testing was performed and all resultant testing was 10us/cm on surfaces to receive topcoat application. ZPMC completed dry spray removal process and masking processes and applied the "mist coat" of Interfine 979 topcoat to exterior surfaces as directed by ABF QA Bill Oak.

OBG 1AW & OBG 1AE

Joint inspection with Caltrans QA Lumley ABF QA& ZPMC QC representatives on the corner unit web plate base metal faying surfaces. ABF QA allocated locations for grinding of weld spatter and gouges. ZPMC performed grinding operations and re- blasted subsequent base metal surfaces to re-establish profile. Profile range of 74-78 um was observed. ZPMC monitored ambient conditions and application of Interzinc 22 commenced on these base

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metal surfaces.

OBG 3AW

ZPMC & ABF and Caltrans QA Lumley re-inspected previously applied “mist coat” of Interfine 979 and performed testing in accordance with section 7 of ASTM D1640. The previously “mist coated” surfaces were within the parameters of section 7 as mentioned above and the second “mist coat” was then applied to the previously mist coated areas.

All in process inspections were performed jointly with Caltrans QA Lumley, ZPMC QC personnel and ABF personnel. International Protective Coatings technical representative was also present in all inspections today with the exception of the inspection of OBG 1AW & OBG1AE.

Summary of Conversations:

No relevant conversations on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer
